

## **Windbreak/Shelterbelt Renovation – 650 DOCUMENTATION**

### **Requirements for all Windbreak Renovation Projects:**

- Name, address, and phone # of landowner or decision maker
- Include any habitat evaluation completed for the management unit
- Record field number, field boundary and field acres on plan map
- Document NRCS cultural resource policy compliance
- If ground disturbing practice, document NRCS buried utility policy compliance
- Locations of practice marked on aerial photo, conservation plan map, scaled drawing, or arc view image. As appropriate the practice can be recorded in the conservation plan.
- Particular renovation method(s) to be used
- Extent of area to be renovated
- Date of planned renovation
- Name of renovation designer
- Date renovation completed
- Initials of certifying official

### **Design and documentation requirements for renovations that include planting.**

- For windbreak renovation methods that include tree and shrub planting the ND-CONS-4 or ND-CONS-4e may be used for design and documentation of the windbreak.
- For windbreak renovation methods that include grass planting within the windbreak/shelterbelt the ND-CPA-9 or ND-CPA-9e may be used for design and documentation of the grass cover within the windbreak.

**If neither of these forms is used then the following documentation is required for renovation practices that include tree and shrub or grass planting.**

### **For Woody or Herbaceous Cover Plantings document the following:**

- Aerial photo, scaled sketch, or arc view image showing location of planting
- Legal description of planting site (to ¼ -section level or closer)
- Extent- planned and actual (acres)
- Site preparation method- planned and actual
- Planned planting date (calendar period)
- Stocking rate, planting density, or bulk seeds per acre of each species - planned/actual
- Stock type and specific planting method(s)
- Locations of species within the planting - planned/actual
- Establishment and maintenance requirements (years 1-3)
- Operation and Management plan (could be referenced to a landowner-specific forest management plan or appropriate NRCS or Extension pamphlets)
- Signature and date of planner
- Date of actual planting
- Temperature, wind, humidity, sunshine at time of planting (woody and vegetative plugs)
- Site conditions at planting time (wet, dry, chunky, weeds, etc.)
- Dated and signed certification that planting was installed according to NRCS standards and specifications - **OR** -
- Describe elements not meeting NRCS standards and specifications.

**Additional Information specific to woody plantings**

- Design soil(s) and windbreak suitability group(s)
- For direct seeding of trees and shrubs, provide the anticipated percent germination for each species.

**Additional Information specific to herbaceous cover plantings**

- Design soil(s) and ecological site or pasture/hayland group(s)
- # Pure Live Seed/acre seeding rate of each species and/or vegetative stock type and specific planting method(s) – planned and actual
- Seed tag data, and germination results if retested

**Renovation Method-Specific Documentation Requirements:**

- Coppicing
  - Objective of coppice regeneration (What are the desired results?)
  - Time of year to perform operation
  - Species to be coppiced
  - Estimated age of species to be coppiced
- Gap Planting
  - Note distance from existing trees or shrubs
  - Tree, shrub and/or grass planting - See planting requirements listed above.
- Natural Regeneration
  - Objective of natural regeneration
  - Height and species of trees and shrubs to be left
  - Targeted density (basal area or plant to plant spacings)
  - Herbicides used, if any, to control re-sprouts (Follow label directions)
- Pruning
  - Objective of pruning
  - Species to be pruned
  - Targeted pruning height from ground, or canopy density, if appropriate
- Root Pruning
  - Objective root pruning
  - Age and species of existing trees
  - Distance from existing trees to root pruning trench
- Row Removal and Replacement
  - Objective of removal and replacement
  - Specific removal method (just cutting tops, removing tops and roots, etc.)
  - Species being removed
  - Site preparation methods prior to replacement
  - Tree, shrub and/or grass planting - See planting requirements listed above.
- Shearing
  - Objective of shearing
  - Species to be sheared
  - Time of year for shearing to occur
  - How much (percentage or length) of the foliage to be removed in each shearing operation.

## Natural Resources Conservation Service – North Dakota

- Sod Release
  - Objective of sod release
  - Windbreak species to be released
  - Sod species to be managed
  - Management methods (herbicide, tillage, mowing, prescribed grazing, etc.)
  - Time of application
- Supplemental Planting
  - Objective of supplemental planting
  - Location with respect to existing windbreak
  - Site preparation needs (tillage, chem fallow, etc.)
  - Tree, shrub and/or grass planting - See planting requirements listed above.

### **OPTIONAL DOCUMENTATION**

- Any job sheets or other management guides used in development of the plan.
- Document off-site conditions relevant to the plan.